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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,523	06/27/2001	Ryan N. Rakvic	2207/1123601	2207/1123601 3187	
23838	7590 06/04/2003				
KENYON & KENYON			EXAMINER		
1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005			INOA, M	IIDYS	
			ART UNIT	PAPER NUMBER	
			2188	7	
			DATE MAILED: 06/04/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)	PPG
	09/891,523	RAKVIC ET AL.	1-124
Office Action Summary	Examiner	Art Unit	
	Midys Inoa	2188	
The MAILING DATE of this communication app Period f rR ply	ears on the cover sheet with the c	orrespond nce address	S
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period who is period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133).	lication.
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL. 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under <i>B</i> Disposition of Claims			erits is
4) Claim(s) 1-21 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-21</u> is/are rejected.			
7) ☐ Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examiner	•		
10)⊠ The drawing(s) filed on <u>27 June 2001</u> is/are: a)∑	☑ accepted or b)☐ objected to by t	he Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).	
11) ☐ The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examiner.	
If approved, corrected drawings are required in rep	ly to this Office action.		
12) ☐ The oath or declaration is objected to by the Exa	aminer.		•
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents		on No.	
3. Copies of the certified copies of the priori			e
application from the International Bur  * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	•	
14) ☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(	e) (to a provisional appl	lication).
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domestic	* *		
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)	
J.S. Patent and Trademark Office			

Application/Con. Number: 09/891,523

Art Unit: 2188

#### **DETAILED ACTION**

### Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on October 12, 2001 and October 11, 2002 have been considered by the examiner.

### **Drawings**

2. The drawings filed on June 27<sup>th</sup>, 2001 have been accepted by the examiner.

## Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

The Specification must include a description of the term "cachelets" used in the claims.

### Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. When read in context, it is not understood what the term "cachelets" refers to. A definition of the term must be supplied.

### Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/891,523

Art Unit: 2188

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-7, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Ayukawa et al. (6,381,671).

Regarding Claims 1-3 and 19, Ayukawa et al. teaches a system in which a cache memory 6 is divided into a number of banks (cachelets), each bank having identifiable addresses. The cache of Ayunkawa et al. is part of a multiple level cache system since the system includes a first level cache memory in addition to cache 6. Ayunkawa also discloses an access manager (address manager) coupled to each bank which monitors and directs the accesses to the different banks of the cache. (See Figure 1 and Column 3, line 65 – Column 4, lines 25).

Regarding Claims 4-5 and 8-10, Ayukawa et al. teaches banks in which inputs are directed to the independent destination bank depending on the bank address (acting as tag field) and a row/column decoder 51 selects the location of the data and avoids bank address conflict (Figure 2, Column 9, line 62-Column 10, lines 17).

Regarding Claims 6-7, Ayukawa et al. teaches the invention as set forth by claim 1 in addition to an access optimizer (address manager, Figure 1, Ref #4), a row/column decoder (instruction decoder, Figure 2, Ref#51), and a number of 128 bit loading buses coupled to the banks (Figure 1, Ref#9A-C).

Application/Control Number: 09/891,523

Art Unit: 2188

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Midys Inoa whose telephone number is (703) 305-7850. The examiner can normally be reached on M-F 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim can be reached on (703) 305-3821. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7239 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Midys Inca Examiner Art Unit 2188

MI June 2, 2003

REGINALD G. BRAGDON PRIMARY EXAMINER

Keginald B. Broghn